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MANELLI DENISON & SELTER PLLC			AVELLINO, JOSEPH E	
ATTEN: WILI 2000 M STRE	LIAM H. BOLLMAN ET N W		ART UNIT PAPER NUMBER	
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Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)					
Office Action Cummon.	09/704,535	BONEFAS ET A	AL.				
Office Action Summary	Examiner	Art Unit					
	Joseph E. Avellino	·					
The MAILING DATE of this communication app Period for Reply	pears on the cover s	heet with the correspondence a	address				
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl- If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, howevery within the statutory minim will apply and will expire SIX, cause the application to b	r, may a reply be timely filed um of thirty (30) days will be considered tim (6) MONTHS from the mailing date of this scome ABANDONED (35 U.S.C. § 133).	nely. communication.				
Status							
1)⊠ Responsive to communication(s) filed on <u>02 F</u>	ebruary 2005.	•					
•	<u> </u>						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
 4) Claim(s) 1-62 is/are pending in the application 4a) Of the above claim(s) 11-23,34-46,48 and 5. 5) Claim(s) is/are allowed. 6) Claim(s) 1-10,24-33,47 and 50-62 is/are reject 7. Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or 	<u>49</u> is/are withdrawn ted.						
Application Papers							
9) The specification is objected to by the Examine	er.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the	drawing(s) be held in	abeyance. See 37 CFR 1.85(a).	,				
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex							
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Burea * See the attached detailed Office action for a list	s have been receiv s have been receiv rity documents hav u (PCT Rule 17.2(a	ed. ed in Application No e been received in this Nation)).	al Stage				
Attachment(s)							
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 	5) <u> </u>	terview Summary (PTO-413) aper No(s)/Mail Date btice of Informal Patent Application (P her:	PTO-152)				

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DETAILED ACTION

1. Claims 1-10, 24-33, 47, and 50-62 are pending in this examination. Claims 11-23, 34-46, 48, and 49 are withdrawn from consideration as being drawn to nonelected inventions.

Claim Rejections - 35 USC § 103

2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 1-6, 8, 24-29, 31, 47, 50-62 are rejected under 35 U.S.C. 103(a) as being unpatentable over Matsuda et al. (US Pre Grant Pub. 2002/0133573) (hereinafter Matsuda) in view of Craddock et al. (USPN 6,351,771) (hereinafter Craddock).

3. Referring to claim 1, Matsuda discloses a computer readable data storage medium storing software for supporting a plurality of intelligent messaging servers in an intelligent messaging network (i.e. a network 201), the software comprising:

a first code segment handling registration (automatic configuration, network addressing, service discovery) of NOA (networked office architecture) servers and clients with the intelligent messaging network, wherein registration comprises storing a server id (fully qualified domain name) and a server type (i.e. service definitions, as seen in ¶'s 86-95) for the first intelligent messaging server in a database storing server

ids and server types for the plurality of intelligent messaging servers (e.g. abstract; p. 5, ¶ 47-49; p. 8-9, ¶ 83-114);

a second code segment for connecting NOA clients/servers to one another (e.g. abstract; p. 8, ¶ 83-95) (it is understood that if a NOA client can utilize the services of another NOA client, then it is inherent that they are connected to one another);

a third code segment encapsulating communication between NOA clients (e.g. abstract).

Matsuda does not specifically disclose enabling communication between intelligent messaging servers, however Matsuda does disclose that if a NOA server is not configured as a DHCP server offering configuration settings, it is registered as a NOA client, therefore it would lead one of ordinary skill to believe that multiple servers can communicate with one another using the system described in Matsuda, therefore it would have been obvious to one of ordinary skill in the art to provide for encapsulating communications between servers to the system of Matsuda to provide for enhanced communications abilities and for information sharing abilities.

Matsuda does not specifically disclose the plurality of intelligent messaging servers are adapted to perform protocol conversions to allow a client device to transparently connect to at least one of a wireless network and a wired access network. In analogous art, Craddock discloses another system of supporting a plurality of network servers wherein the plurality of intelligent messaging servers are adapted to perform protocol conversions to allow a client device to transparently connect to a wired access network (e.g. abstract; col. 5, lines 43-65). It would be obvious to a person of

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ordinary skill in the art at the time the invention was made to combine the teaching of Craddock with Matsuda since Matsuda discloses an example of service definitions defining different services the servers can provide to the clients (p. 8, ¶ 86-95). This would lead one of ordinary skill in the art to search for other services intelligent servers can provide for other clients, eventually leading to Craddock and its novel method of transparent service providing to a plurality of different clients (e.g. abstract).

- 4. Referring to claim 2, Matsuda discloses the first code segment (i.e. registration process) specifies a server class (i.e. a server priority) and a server type (p. 6-7, ¶ 56, 61) for the first intelligent messaging server.
- 5. Referring to claim 3, Matsuda discloses the first code segment (i.e. registration process) specifies an IP address (p. 7, ¶ 65-66).
- Referring to claim 4, Matsuda discloses the third code segment (i.e. network communication technique) generates a standard packet for communications between the intelligent messaging servers (i.e. an HTTP packet since the NOA architecture is based on an HTTP network connected to the Internet 201) (p. 3, ¶ 37; p. 4, ¶ 40).
- 7. Referring to claim 5, it is well known in the art that HTTP packets which the NOA architecture of Matsuda utilizes includes a packet length (i.e. "Content-Length: XXXX").

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8. Referring to claim 6, it is well known in the art that HTTP packets which the NOA architecture of Matsuda utilizes includes a server ID (i.e. an IP address of the server) so that it is known the source or destination of the packet).

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9. Referring to claim 8, Matsuda discloses a code segment encrypting and decrypting messages (p. 10, ¶ 126-127), however does not specifically state generating acknowledgement messages, processing the acknowledgement messages, and compressing and decompressing messages, however it is well known in the art that acknowledgement messages (known as ACK's) can be sent from destination to senders if a particular segment or message has not been received, and it is then inherent that both the destination computer and the sender computer can process the ACK message to determine what, if any, action must be done to rectify the situation (i.e. retransmit a segment, restart transmission, etc.). It is further common knowledge that code segments which compress and decompress messages is well known and expected in the art to save transmission processing and reduce overall bandwidth on the network communication link. Therefore it would have been obvious to one of ordinary skill in the art to provide for generating and processing ACK messages as well as compressing and decompressing messages to further reduce overall server processing and increase efficiency while reducing congestion over the network.

- Referring to claim 50, Matsuda discloses searching the database based on 10. server type to identify the second server, the second server being of a server type that the first server desires to connect with (p. 9, ¶ 97-105).
- Referring to claim 51, Matsuda discloses facilitating a handshake procedure 11. determining a validity of a connection between the first server and the second server (p. 9, ¶ 102-107).
- 12. Referring to claim 52, Matsuda discloses the server types are associated with functions performed by the plurality of servers (p. 8-9, ¶ 83-114).
- Referring to claim 53, Matsuda discloses the server types comprise protocol 13. gateway servers (i.e. fax servers), message router servers (i.e. doc retrieval servers) and back-end servers (calendar schedule and retrieval servers) (p. 8, ¶ 86-95).
- Referring to claim 54, Matsuda discloses the server class is associated with a 14. network access protocol for a network connecting a client to the first server (p. 6-7, ¶ 56, 61).
- 15. Referring to claim 55, Matsuda discloses the invention substantively as described in claim 1. Matsuda does not specifically disclose encapsulating a network access protocol used to transmit data from a client device to the first server such that the

network access protocol is transparent to the second server receiving the data from the first server. However it is well known that wireless browser-enabled cellular phones use the WAP (wireless application protocol) in order to connect to the Internet, this WAP signal is sent to a gateway which encapsulates this request into a standard HTTP GET request, thereby allowing the ability to connect to the internet. By this rationale it would have been obvious to one of ordinary skill to incorporate encapsulating a network access protocol used to transmit data from a client device to the first server such that the network access protocol is transparent to the second server receiving the data from the first server because it would allow cellular users the ability to utilize the system,

16. Claims 24-29, 31, 47, 56-62 are rejected for similar reasons as stated in the claims above.

thereby increasing customer base and providing more of a market share to the system.

Claims 7, 9, 10, 30, 32, and 33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Matsuda in view of Craddock and further in view of Bell et al. (USPN 6,044,081) (hereinafter Bell).

17. Referring to claim 7, Matsuda in view of Craddock discloses the computer-readable data storage medium as stated in the claims above. Matsuda in view of Craddock does not disclose encapsulating a transport header, notifying a sender of a success or failure of a transmission, segmenting messages over a pre-determined

length into message segments, assembling messages segments into messages, resending messages not ACK'ed, detecting duplicate message segments, and detecting duplicate messages. Bell discloses:

encapsulating a transport header (MAC frame header) (col. 20, lines 24-33); notifying a sender of a success or failure of a transmission (it would have been obvious to incorporate a failure notification mechanism to the sender when a frame check sequence error is detected to reduce bandwidth by halting transmission of unnecessary message segments and to retransmit pertinent segments) (col. 21, lines 20-30);

segmenting messages over a pre-determined length into message segments (encapsulation) (e.g. abstract; col. 20, lines 23-65);

assembling messages segments into messages (de-encapsulation) (col. 21, lines 30-51);

pacing a transmission of messages larger than a pre-determined number of segments (i.e. buffering messages and transmitting them in a queue) (col. 20, lines 20-25);

Bell does not specifically state detecting duplicate message segments or detecting duplicate messages, however does disclose that if a new message sequence number is received before the necessary last segment of the previous message, it will abort processing and return an error (col. 21, lines 20-30). Therefore it would have been obvious to one of ordinary skill in the art to provide code to detect duplicate message segments and detect duplicate messages to the system of Matsuda-

Craddock-Bell to increase efficiency of the system by not wasting server processing time dealing with previously sent messages or segments.

- 18. Referring to claim 9, Matsuda in view of Craddock discloses the computer-readable data storage medium as stated in the claims above. Matsuda in view of Craddock does not disclose encapsulating a communication layer. Bell discloses encapsulating a communication layer (the Office takes the term communication layer to mean formatting a higher level message to be transmitted over a network) (col. 20, lines 23-65). It would be obvious to a person of ordinary skill in the art at the time the invention was made to combine the teaching of Bell with Matsuda and Craddockto provide an efficient bandwidth connection while providing a path from every node to every other node within a private network without requiring multiple physical connections for each node as supported by Bell (col. 8, lines 30-35).
- 19. Referring to claim 10, it is well known in the art that application specific messages can be processed by servers (i.e. serving a web page, a CGI script, SOAP execution module, etc.) to provide services required by the application to the client. Furthermore, it is well known in the art that specific servers may compress messages as a form of encryption in order to provide an enhanced level of security as well as reducing used bandwidth on a communication link. Matsuda in view of Craddock discloses code providing special security services (i.e. passwords and database updating) (Matsuda, p. 10, ¶126-128).

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20. Claims 30, 32, and 33 are rejected for similar reasons as stated in the claims above.

Response to Amendment

- 21. Applicant's arguments filed February 2, 2005 have been fully considered but they are not persuasive.
- 22. Applicant argues in substance that, (1) Matsuda does not disclose performing protocol conversions to allow a client device to transparently connect to a network, and (2) Matsuda and Bell do not disclose storing a server id and a server type.
- 23. As to point (1) the deficiencies listed above have been mitigated with the inclusion of Craddock.
- 24. As to point (2) as stated above Matsuda discloses storing a server id and a server type. A server id can be construed as an address or an identifier which singularly defines a particular server instance. An example of this can be a Fully Qualified Domain Name as stated in Matsuda (see p. 8, ¶ 87-94, specifically <domain name>). The Office takes the term "server type" to be broadly construed as "an identifier which discloses what the server is assigned to do". Matsuda discloses this as the <servicename> each server id also has an associated <servicename> tag which

identifies the type of server it is. Examples shown in Matsuda are archiving servers, fax servers, calender servers and print servers. Each of these tags identifies a particular service to provide to the client. By this rationale the rejection is maintained.

Conclusion

- 25. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 26. Sabatier (USPN 6,754,708) discloses procedure for establishing communication between two information devices connected to a network.
- 27. Sitaraman et al. (USPN 6,816,901) discloses proxy session count limitation.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph E. Avellino whose telephone number is (571) 272-3905. The examiner can normally be reached on Monday-Friday 7:00-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David A. Wiley can be reached on (571) 272-3923. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9306 for regular communications and (703) 872-9306 for After Final communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

JEA

February 16, 2005

BUNJOS JAROENCHONWANIT PRIMARY EXAMINER